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Date of Deposit: June 25, 2004

Our Case No.: 5404/79

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kazuyoshi Yajima et al.

International Serial No.
PCT/JP02/13766

U.S. Serial No.: Applied for

International Filing Date: December 27,
2002

U.S. Filing Date: Herewith

Title: PROCESSES FOR PRODUCING
COENZYME Q₁₀

Examiner: Not Assigned

Group Art Unit No.: Not Assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed below and on the attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

The references now cited are the following:

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME
3,769,170 A	10/30/1973	Kondo et al.
4,220,719 A	09/02/1980	Aida et al.

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY
EP 1 123 979 A1	08/16/2001	EPO
EP 1 336 657 A1	08/20/2003	EPO
EP 1 354 957 A1	10/22/2003	EPO
EP 1 391 515 A1	02/25/2004	EPO
JP 48-8836 B	03/17/1973	Japan
JP 54-110388 A	08/29/1979	Japan
JP 54-119090 A	09/14/1979	Japan
JP 55-27 A	01/05/1980	Japan
JP 55-28 A	01/05/1980	Japan
JP 55-21756 A	02/16/1980	Japan
JP 55-68295 A	05/22/1980	Japan
JP 55-148084 A	11/18/1980	Japan
JP 56-55196 A	05/15/1981	Japan
JP 56-154994 A	11/30/1981	Japan
JP 56-154996 A	11/30/1981	Japan
JP 57-33599 A	02/23/1982	Japan
JP 10-57072 A	03/03/1998	Japan
DD 236 552 A1	11/06/1986	Germany

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

International Search Report from Corresponding International Application No. PCT/JP02/13766, Dated April 15, 2003, 3 double-sided pages.
Kockova-Kratochvilova, A. et al., "Die Beziehungen innerhalb der Gattung <i>Cryptococcus</i> (Sanfelice) Vuillemin", <i>Zbl. Bakt. Abt. II, Bd.</i> , Vol. 131, No. 7, 1976, pp. 610-631.
Natori, Y. et al., "Production of Coenzyme Q ₁₀ by <i>Pseudomonas</i> N842", <i>Agric. Biol. Chem.</i> , Vol. 42, No. 9, 1978, pp. 1799-1800.
Natori, Y. et al., "Enhancement of Coenzyme Q ₁₀ Accumulation by Mutation and Effects of Medium Components on the Formation of Coenzyme Q Homologs by <i>Pseudomonas</i> N842 and Mutants", <i>Agric. Biol. Chem.</i> , Vol. 45, No. 10, 1981, pp. 2175-2182.
Ohta, H., " <i>Agromonas oligotrophica</i> gen. nov., sp. nov., a Nitrogen-Fixing Oligotrophic Bacterium", <i>Antonie van Leeuwenhoek</i> , Vol. 49, Nos. 4-5, 1983, pp. 429 - 446.
Sakato, K. et al., "Agitation-Aeration Studies on Coenzyme Q ₁₀ Production Using <i>Rhodopseudomonas spheroides</i> ," <i>Biotechnology and Applied Biochemistry</i> , Vol. 16, No. 1, 1992, pp. 19-28.

Urakami T., et al., "Production of Isoprenoid Compounds in the Facultative Methylophilic <i>Protomonas extroquens</i> ", <i>J. Ferment. Technol.</i> , Vol. 66, No. 3, 1988, pp. 323-332.
Urakami, T. et al., "Production of Ubiquinone and Bacteriochlorophyll α by <i>Rhodobacter sphaeroides</i> and <i>Rhodobacter sulfidophilus</i> ", <i>Journal of Fermentation and Bioengineering</i> , Vol. 76, No. 3, 1993, pp. 191-194.
Urakami, T., et al., "Transfer of <i>Pseudomonas aminovorans</i> (den Dooren de Jong 1926) to <i>Aminobacter</i> gen. nov. as <i>Aminobacter aminovorans</i> comb. nov. and Description of <i>Aminobacter aganoensis</i> sp. nov. and <i>Aminobacter niigataensis</i> sp. nov.", <i>International Journal of Systematic Bacteriology</i> , Vol. 42, No. 1, January 1992, pp. 84-92.
Wakao, N. et al., " <i>Acidiphilium Multivorm</i> sp. nov., an Acidophilic Chemoorganotrophic Bacterium from Pyritic Acid Mine Drainage", <i>Journal of General and Applied Microbiology</i> , Vol. 40, No. 2, 1994, pp. 143-159.
Yabuuchi, E., et al., "Proposals of <i>Sphingomonas paucimobilis</i> gen. nov. and comb. nov., <i>Sphingomonas parapaucimobilis</i> sp. nov., <i>Sphingomonas yanoikuyae</i> sp. nov., <i>Sphingomonas adhaesiva</i> sp. nov., <i>Sphingomonas capsulata</i> comb. nov., and Two Genospecies of the Genus <i>Sphingomonas</i> ," <i>Microbiology and Immunology</i> , Vol. 34, No. 2, 1990, pp. 99-119.
Yamada, Y., et al., "The Coenzyme Q System in Strains of <i>Trichosporon</i> Species and Related Organisms", <i>Journal of General and Applied Microbiology</i> , Vol. 28, No. 4, 1982, pp. 355-358.
Yoshida, H. et al. "Production of Ubiquinone-10 Using Bacteria", <i>Journal of General and Applied Microbiology</i> , Vol. 44, No. 1, 1998, pp. 19-26.

This Information Disclosure Statement is being filed concurrently with the filing of the above-identified application and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is hereby authorized to deduct said fees from Brinks Hofer Gilson & Lione Deposit Account No. 23-1925. A duplicate copy of this document is enclosed.


In accordance with 37 C.F.R. § 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

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Applicant(s) respectfully request that the listed documents be made of record in
the present case.

Respectfully submitted,



Gregory H. Zayia
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Applicant(s) Representative

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FORM PTO-1449	INTERNATIONAL APPLICATION NO. PCT/JP02/13766	CASE NO. 107500249 5404/79
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	INTERNATIONAL FILING DATE December 27, 2002	GROUP ART UNIT Not Assigned
APPLICANT(S): Kazuyoshi Yajima et al.		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	3,769,170 A	10/30/1973	Kondo et al.		
	A2	4,220,719 A	09/02/1980	Aida et al.		

FOREIGN PATENT DOCUMENTS

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	A3	EP 1 123 979 A1	08/16/2001	EPO		
	A4	EP 1 336 657 A1	08/20/2003	EPO		
	A5	EP 1 354 957 A1	10/22/2003	EPO		
	A6	EP 1 391 515 A1	02/25/2004	EPO		
	A7	JP 48-8836 B	03/17/1973	Japan		No
	A8	JP 54-110388 A	08/29/1979	Japan		Abstract
	A9	JP 54-119090 A	09/14/1979	Japan		Abstract
	A10	JP 55-27 A	01/05/1980	Japan		Abstract
	A11	JP 55-28 A	01/05/1980	Japan		Abstract
	A12	JP 55-21756 A	02/16/1980	Japan		Abstract
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	A16	JP 56-154994 A	11/30/1981	Japan		Abstract
	A17	JP 56-154996 A	11/30/1981	Japan		Abstract
	A18	JP 57-33599 A	02/23/1982	Japan		Abstract
	A19	JP 10-57072 A	03/03/1998	Japan		Abstract
	A20	DD 236 552 A1	11/06/1986	Germany		Abstract

EXAMINER INITIAL	OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)
A21	International Search Report from Corresponding International Application No. PCT/JP02/13766, Dated April 15, 2003, 4 double-sided pages.
A22	Kockova-Kratochvilova, A. et al., "Die Beziehungen innerhalb der Gattung <i>Cryptococcus</i> (Sanfelice) Vuillemin", <i>Zbl. Bakt. Abt. II, Bd.</i> , Vol. 131, No. 7, 1976, pp. 610-631.
A23	Natori, Y. et al., "Production of Coenzyme Q ₁₀ by <i>Pseudomonas</i> N842", <i>Agric. Biol. Chem.</i> , Vol. 42, No. 9, 1978, pp. 1799-1800.

EXAMINER	DATE CONSIDERED
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	A25	Ohta, H. et al., " <i>Agromonas oligotrophica</i> gen. nov., sp. nov., a Nitrogen-Fixing Oligotrophic Bacterium", <i>Antonie van Leeuwenhoek</i> , Vol. 49, Nos. 4-5, 1983, pp. 429 - 446.
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	A28	Urakami, T. et al., "Production of Ubiquinone and Bacteriochlorophyll α by <i>Rhodobacter sphaeroides</i> and <i>Rhodobacter sulfidophilus</i> ", <i>Journal of Fermentation and Bioengineering</i> , Vol. 76, No. 3, 1993, pp. 191-194.
	A29	Urakami, T., et al., "Transfer of <i>Pseudomonas aminovorans</i> (den Dooren de Jong 1926) to <i>Aminobacter</i> gen. nov. as <i>Aminobacter aminovorans</i> comb. nov. and Description of <i>Aminobacter aganoensis</i> sp. nov. and <i>Aminobacter niigataensis</i> sp. nov.", <i>International Journal of Systematic Bacteriology</i> , Vol. 42, No. 1, January 1992, pp. 84-92.
	A30	Wakao, N. et al., " <i>Acidiphilium Multivorm</i> sp. nov., an Acidophilic Chemoorganotrophic Bacterium from Pyritic Acid Mine Drainage", <i>Journal of General and Applied Microbiology</i> , Vol. 40, No. 2, 1994, pp. 143-159.
	A31	Yabuuchi, E., et al., "Proposals of <i>Sphingomonas paucimobilis</i> gen. nov. and comb. nov., <i>Sphingomonas parapaucimobilis</i> sp. nov., <i>Sphingomonas yanoikuyae</i> sp. nov., <i>Sphingomonas adhaesiva</i> sp. nov., <i>Sphingomonas capsulata</i> comb. nov., and Two Genospecies of the Genus <i>Sphingomonas</i> ," <i>Microbiology and Immunology</i> , Vol. 34, No. 2, 1990, pp. 99-119.
	A32	Yamada, Y., et al., "The Coenzyme Q System in Strains of <i>Trichosporon</i> Species and Related Organisms", <i>Journal of General and Applied Microbiology</i> , Vol. 28, No. 4, 1982, pp. 355-358.
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